STRAND
ASSOCIATES, INC.
ENGINEERS

1170 South Houbolt Road
Joliet, IL 60431
Phone: 815-744-4200
Fax: 815-744-4215

Office Locations

Madison, WI
Joliet, IL
Louisville, KY
Lexington, KY
Mobile, AL
Columbus, IN
Lancaster, OH
Indianapolis, IN
Milwaukee, WI

www.strand.com

April 6, 2006

Mr. Tom Bunosky
Aqua Illinois, Inc.
1000 South Schuyler Avenue
Kankakee, IL 60901

Re: Village of Monee
Ridgeland Avenue Sanitary Pumping Station, Force Main, and
Interceptor Sewer Project

Dear Mr. Bunosky,

Enclosed are two originals of applications for construction and operation of a new sanitary pumping station, force main, and interceptor sewer for the Village of Monee. These applications are being submitted to Aqua Illinois for execution of Certificate 7.4 as the Intermediate Sewer Owner and Certificate 7.5 as the Waste Treatment Works Operator. These applications have concurrently been submitted to IEPA for their consideration.

It is critical for the Village of Monee to proceed with these proposed improvements and your expeditious execution of these certificates is appreciated. With this submittal, you will find background and supporting information for these improvements. If you need additional information please contact our office.

Upon execution of these certificates, please return them to our office. Your attention to this matter is appreciated.

Sincerely,

STRAND ASSOCIATES, INC.

Michael R. Waldron, P.E.
Village Engineer

Enclosures

c: Village President and Village Board of Monee
Dave Else – Water and Sewer Superintendent
Larry Grycziewski – Village Attorney

MRW:jrS:\06\751--800\762\023\Wrd\Permits\Aqua.San.Permit.LOT.doc

Illinois Environmental Protection Agency
Permit Section, Division of Water Pollution Control
P.O. Box 19276
Springfield, Illinois 62794-9276

For IEPA Use:

Application for Permit or Construction Approval
WPC-PS-1

1. Owner Name: Village of Monee

   Name of Project: Ridgeland Avenue Pump Station, Force Main, and Gravity Sewer

   Township: Monee County: Will

2. Brief Description of Project:

   A pump station, force main, and gravity sewer serving the west side of I-57 for the Village of Monee.

3. Documents Being Submitted: If the Project involves any of the items listed below, submit the corresponding schedule, and check the appropriate boxes.

	Schedule		Schedule
Private Sewer Connection/Extension	A/B ☑	Spray Irrigation	H ☐
Sewer Extension Construct Only	C ☐	Septic Tanks	I ☐
Sewage Treatment Works	D ☐	Industrial Treatment/Pretreatment	J ☐
Excess Flow Treatment	E ☐	Waste Characteristics	N ☐
Lift Station/Force Main	F ☑	Erosion Control	P ☑
Fast Track Service Connection	FTP ☐	Trust Disclosure	T ☐
Sludge Disposal	G ☐		

   Plans: Title Ridgeland Avenue Pump Station, Force Main, and Gravity Sewer

   No. of Pages: 44

   Specifications: Title Ridgeland Avenue Pump Station, Force Main, and Gravity Sewer

   No. of Books/Pages: 1 book

   Other Documents: _____
   (Please Specify)

3.1 Illinois Historic Preservation Agency approval letter: Yes ☐ No ☑

4. Land Trust: Is the project identified in item number 1 herein, for which a permit is requested, to be constructed on land which is the subject of a trust? Yes ☐ No ☑

   If yes, Schedule T (Trust Disclosure) must be completed and item number 7.1.1 must be signed by a beneficiary, trustee or trust officer.

5. This is an Application for (Check Appropriate Line):

   ☑ A. Joint Construction and Operating Permit
   ☐ B. Authorization to Construct (See Instructions) NPDES Permit No. IL00_____
   ☐ C. Construct Only Permit (Does Not Include Operations)
   ☐ D. Operate Only Permit (Does Not Include Construction)

6. Certifications and Approval:

6.1 Certificate by Design Engineer (When required: refer to instructions)
I hereby certify that I am familiar with the information contained in this application, including the attached schedules indicated above, and that to the best of my knowledge and belief such information is true, complete and accurate. The plans and specifications (specifications other than Standard Specifications or local specifications on file with this Agency) as described above were prepared by me or under my direction.

Engineer Name: Michael R. Waldron, P.E.

Registration Number: 062 (3 digits) - 050441 (6 digits)

Firm: Strand Associates, Inc.

Address: 1170 South Houbolt Road

(Seal)
MICHAEL R. WALDRON
062-050441
LICENSED
PROFESSIONAL
ENGINEER
STATE OF ILLINOIS

City: Joliet State: IL Zip: 60431 Phone No: (815) 744-4200

Signature X Michael R Waldron Date: 4/6/06

7. Certifications and Approvals for Permits:

7.1 Certificate by Applicant(s)
I/We hereby certify that I/we have read and thoroughly understand the conditions and requirements of this Application, and am/are authorized to sign this application in accordance with the Rules and Regulations of the Illinois Pollution Control Board. I/We hereby agree to conform with the Standard Conditions and with any other Special Conditions made part of this Permit.

7.1.1 Name of Applicant for Permit to Construct: Village of Monee

Address: 5130 W. Court Street

City: Monee State: IL Zip Code: 60449

Signature X Dave N Else Date: 4.5.06

Printed Name: Dave Else Phone No: (708) 534-4465

Title: Director of Sewer and Water

Organization: Village of Monee

7.1.2 Name of Applicant for Permit to Own and Operate: Village of Monee

Address: 5130 W. Court Street

City: Monee State: IL Zip Code: 60449

Signature X Dave N Else Date: 4.5.06

Printed Name: Dave Else Phone No: (708) 534-4465

Title: Director of Sewer and Water

7.2 Attested (Required When Applicant is a Unit of Government)

Signature X Kathleen M. Burlison Date: 4-5-06

Title: Village Clerk

(City Clerk, Village Clerk, Sanitary District Clerk, Etc.)

7.3 Applications from non-governmental applicants which are not signed by the owner, must be signed by a principal executive officer of at least the level of vice president, or a duly authorized representative.

7.4 Certificate By Intermediate Sewer Owner

I hereby certify that (Please check one):

☐ 1. The sewers to which this project will be tributary have adequate reserve capacity to transport the wastewater that will be added by this project without causing a violation of the environmental Protection Act or Subtitle C. Chapter I, or

☐ 2. The Illinois Pollution Control Board, in PCB _____ dated _____ granted a variance from Subtitle C, Chapter I to allow construction of facilities that are the subject of this application.

Name and location of sewer system to which this project will be tributary:

Governors Highway sewer at the intersection of Horner Avenue

Sewer System Owner: Aqua Illinois, Inc.

Address: 1000 South Schuyler Avenue P.O. Box 152

City: Kankakee State: IL Zip Code: 60901

Signature X _____ Date: _____

Printed Name: _____ Phone No: _____

Title: _____

7.4.1 Additional Certificate By Intermediate Sewer Owner

I hereby certify that (Please check one):

☐ 1. The sewers to which this project will be tributary have adequate reserve capacity to transport the wastewater that will be added by this project without causing a violation of the environmental Protection Act or Subtitle C. Chapter I, or

☐ 2. The Illinois Pollution Control Board, in PCB _____ dated _____ granted a variance from Subtitle C, Chapter I to allow construction facilities that are the subject of this application.

☑ 3. Not applicable

Name and location of sewer system to which this project will be tributary:

_____

Sewer System Owner: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Signature X _____ Date: _____

Printed Name: _____ Phone No: _____

Title: _____

7.5 Certificate By Waste Treatment Works Owner

I hereby certify that (Please check one):

☐ 1. The waste treatment plant to which this project will be tributary has adequate reserve capacity to treat the wastewater that will be added by this project without causing a violation of the Environmental Protection Act or Subtitle C, Chapter I, or

☐ 2. The Illinois Pollution Control Board, in PCB _____ dated _____ granted a variance from Subtitle C, Chapter I to allow construction and operation of the facilities that are the subject of this application.

☐ 3. Not applicable

I also certify that, if applicable, the industrial waste discharges described in the application are capable of being treated by the treatment works.

Name of Waste Treatment Works: Aqua Illinois University Park

Waste Treatment Works Owner: Aqua Illinois, Inc.

Address: 1000 South Schuyler Avenue P.O. Box 152

City: Kankakee State: IL Zip Code: 60901

Signature X _____ Date: _____

Printed Name: _____ Phone No: _____

Title: _____

Please return completed form to the following address:

Illinois Environmental Protection Agency
Permit Section, Division of Water Pollution Control
P.O. Box 19276
Springfield, Illinois 62794-9276

This Agency is authorized to require this information under Illinois Revised Statues, 1979, Chapter 111 ½, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

IL 532-0010
WPC 150

Log #_____

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
PERMIT SECTION
Springfield, Illinois 62794-9276

SCHEDULE A/B

APPLICATION FOR SANITARY SEWER: (please check one or both boxes as applicable)
Service Connection – Schedule A ☐
Publicly Owned or Regulated Extensions – Schedule B ☒

1. **NAME OF PROJECT:** Ridgeland Avenue Pump Station, Force Main, and Gravity Sewer
2. **TYPE OF SERVICE(S):** Residential ☒ ; Commercial ☒ ; Light Industrial (Domestic Waste Only) ☒ ; Manufacturing ☐ ; Recreational ☐ ; Other ☐ (check all that apply)
3. **NATURE OF PROJECT:** Project consists of: a sewer extension ☐ ; a sewer connection ☐ ; a trunk sewer ☐ ; a replacement sewer ☒ ; a relief sewer ☐ ; an interceptor sewer ☒ ; a new sanitary sewer ☐ . (check all that apply)
4. **PROJECT LOCATION, SERVICE AREA AND POPULATION:** Submit map(s) of the service area that includes the following:
   - 4.1 An 8½ X 11 inch detailed project location map or USGS map showing the project with respect to major roadways. In lieu of this map, a letter from the Illinois Historic Preservation Agency indicating compliance with the Illinois Historic Preservation Act for this project may be submitted.
   - 4.2 The proposed sewer layout and project location.
     Township 34N Section 16,17,20,2 Range 13E
   - 4.3 Residential and/or non-residential areas and their associated waste loads to be immediately served by the sewers of this project.
   - 4.4 Potential residential and/or non-residential areas and their associated loads must be included in the overall design of the sewers of this project.
5. **FACILITIES PLANNING AREA:** This project is ☒ is not ☐ being constructed entirely within the Facilities Planning Area (FPA) boundaries. Name of FPA: Deer Creek (Aqua Illinois)
6. **TYPE OF DEVELOPMENT:** The following design criteria should be used in estimating the population equivalent (P.E.) of a residential building:

Efficiency or Studio Apartment	= 1 P.E.	Commonly used quantities of sewage flows from miscellaneous type facilities are listed in Appendix B, Table No. 2 of the Illinois Recommended Standards for Sewage Works.
1 Bedroom Apartment	= 1.5 P.E	
2 Bedroom Apartment	= 3 P.E.	
3 Bedroom Apartment	= 3 P.E.	
Single Family Home	= 3.5 P.E.	
Mobile Home	= 2.25 P.E.	

   - 6.1 **RESIDENTIAL BUILDINGS:** Number of building(s) 0 ;
     Number of single family dwelling building(s) 0 ; Number of multiple dwelling buildings* 0 ;
     Estimated total population equivalent 0 P.E.
     * Please provide an itemized list for each multiple dwelling building including: Number of 1, 2 and 3 bedroom units; the total P.E. for the each building and the total P.E. for multiple family dwellings.

6.2 NON-RESIDENTIAL BUILDINGS: Describe use of building(s)

Principal product(s) or activities

Number of non-residential building(s) to be served under this Permit 0

Non domestic liquid waste is ☐ (see section 6.5) is not ☒ produced inside the building(s). If liquid wastes other than domestic are produced, submit Schedule N.

Estimated number of employees N/A ; Estimated number of occupants (transients) N/A .

Estimated population equivalent (one population equivalent is 100 gallons of sewage per day, containing 0.17 pounds of BOD_5 and 0.20 pounds of suspended solids).

Flow P.E 0 ; BOD P.E. 0 ; Suspended Solids P.E. 0 .

6.3 Total loading for project (Sum of 6.1 and 6.2) Design Average Flow 0 GPD; Design Max. Flow 0 GPD; P.E. 0 BOD; P.E. 0 Suspended Solids

* SEE ATTACHED DESIGN MEMO

6.4 Commencing July 1, 2003, Section 12.2 of the Environmental Protection Act (415 ILCS 5/12.2, as amended by P.A. 93-32) requires the Agency to collect a fee for certain applications for the installation of sanitary sewer connections and extension. Except for the conditions listed below, the following fee schedule shall apply:

Fee Dollars	Population Equivalents
100	1
400	2 - 20
800	21 - 100
1200	101 - 499
2400	500 or more

Please send the appropriate fee based upon section 6.4 or 6.5; certified or cashiers check made out to: "Treasurer, State of Illinois, Environmental Protection Permit and Inspection Fund" with the applicant's Federal Employee Identification Number (FEIN) appearing on the face of the check and submit along with this schedule. Any fee remitted to the Agency shall not be refunded at any time or for any reason, either in whole or in part.

The Sewer Permit fee does not apply to:

a) Any Department, Agency or Unit of State Government

b) Any unit of local government where all of the following conditions are met;
   1) The cost of the installation or extension is paid wholly from monies of the unit of local government, state grants or loans, federal grants or loads, or any combination thereof;
   2) The unit of local government is NOT given monies, reimbursed or paid, either in whole or in part, by another person (except for State grants or loans or federal grants or loans;

c) 1) Include a certified copy of the budget item or the board or council minutes which authorize the construction of this project with only local funds; and

   2) I/we Kathleen M. Bucaro
   (Signature for Unit of Government)
   hereby certify that subsections (b)(1), (b)(2) and (c)(1) have been met.

6.5 A $1,000 fee shall be required for any industrial wastewater source that does not require pretreatment of the wastewater prior to discharge to the publicly owned treatment works or publicly regulated treatment works.

7. **DEVIATION FROM DESIGN CRITERIA:** The design criteria for sewers are contained in the "Illinois Recommended Standards for Sewage Works", Current Edition. This submittal does ☐ does not ☒ include deviations from said criteria. **If deviations are included, justification for said deviations must be attached.**

8. **INFILTRATION/EXFILTRATION LIMITS:** 200 gallons per inch diameter of sewer pipe per mile per day.

9. **SUMMARY OF SEWERS:**

Submit plan and profile drawings for all sanitary sewer extensions and for all sanitary sewer connections where either the domestic wastewater source serves more than one building, where the domestic wastewater source is 15 P.E. or more, where non-domestic waste is produced or where the connection is not direct to either a publicly-owned or publicly- regulated sewer.

	Service Connections		Publicly Owned or Regulated Extensions			
Pipe size – inches	NA	NA	12	16	16	24
Total Length – feet			39	8702	90	5,645
Min. slope used - %			NA	NA	NA	0.16
Max. slope used - %			NA	NA	NA	2.0
Min. cover over sewers - feet			7.0	7.0	4.0	4.0
Pipe Material & Specs.			Ductile Iron ANSI C150	Ductile Iron ANSI C150	PVC C-905 ANSI C150	Ultra Rib PVC ASTM F794
Joint Material & Specs.			ANSI C111	ANSI C111	ANSI C111	ASTM D3212
Total Manholes			NA	NA	NA	18
Max. Distance Between Manholes			NA	NA	NA	400
Bedding Class for Rigid Pipe (A, B, or C per ASTM C12)			B	B	NA	NA
Bedding Class for Flexible Pipe (IA, IB, II, or III per ASTM 2321-89)			NA	NA	IB	1B

9.1 Is the project located in a flood plain? YES ☐ NO ☒ If yes, contact the Illinois Department of Natural Resources, Division of Water Resources Management for further permit requirements.

9.2 Water tight manhole covers used on all manholes where the manhole tops are below cover or where the tops may be flooded by surface runoff or high water? YES ☒ NO ☐

10. **EROSION CONTROL:** The design criteria for Erosion Control are contained in the "Illinois Urban Manual" Current Edition, distributed by the National Resource Conservation Service. This submittal does ☐ does not ☒ include deviation from said criteria. If deviations are included, justification for said criteria must be attached. (See instructions for Schedule P to determine if Schedule P must be submitted.)

11. **EXISTING SEWER SYSTEM:**

A. This project will connect to one of the following:

1. existing sanitary sewer ☒
2. existing combined sewer ☐
3. permitted sanitary sewer ☐
4. permitted combined sewer ☐
5. proposed sanitary sewer ☐
6. proposed combined sewer ☐

If permitted but not constructed and operational provide permit number _____

B. Size and location of downstream sewer(s):
24-inch at the intersection of Governors Highway and Homer Avenue

12. **WATER SUPPLY PROTECTION:** The horizontal and/or vertical separation between sanitary sewers and watermains is in accordance with Section 370.350 of the Illinois Recommended Standards for Sewage Works. YES ☒ NO ☐ .

The location of proposed and existing watermain(s) must be shown in both the plan and profile views on plan sheet(s) for each water-sewer line crossing and at all locations within 10 feet horizontal distance of the proposed sewer line. Detailed drawing(s) for crossings, either typical or site-specific, shall be shown on the plan sheet(s).

12.1 HORIZONTAL SEPARATION: All sewer line(s) is(are) 10 feet from water line(s) YES ☒ NO ☐
If no, provide justification AND describe the precautionary features against contamination

All proposed forcemain(s) 10 feet from water line(s) YES ☒ NO ☐ N/A ☐ .

12.2 VERTICAL SEPARATION:

A. The water line(s) is(are) at least 18 inches above the sewer line(s) YES ☐ NO ☒ . If no, continue with 12.2.B and provide justification below as to why this is not possible and describe precautionary measures taken to prevent contamination.

B. The water line(s) is(are) above the sewer line(s) but less than 18 inches YES ☐ NO ☒ . If no, continue with 12.2.C and provide justification below as to why this is not possible and describe precautionary measures taken to prevent contamination.

C. The water line(s) is(are) at least 18 inches below the sewer line(s) YES ☒ NO ☐ . If no, provide justification below as to why this is not possible and describe precautionary measures taken to prevent contamination.

Justification and precautionary measures:

WATER MAIN MAY BE LOCATED UNDER FORCE MAIN. FORCE MAIN IS WATER MAIN CLASS PIPE.

12.3 Proximity to wells, reservoirs, and other potable water sources: YES ☐ N/A ☒ .

If Yes, Minimum distance _____ feet. Describe precautionary measures taken to avoid contamination:

Location of all potable water sources shown on plan sheets. YES ☐ NO ☐ NO KNOWN SOURCES ☒

13. **PIPE AND MANHOLE TESTING:**

Is infiltration testing included in plans, specifications, or special provisions?	YES ☐	NO ☒
Is exfiltration test included in plans, specifications, or special provisions?	YES ☐	NO ☒
Is air testing included in plans, specifications, or special provisions?	YES ☒	NO ☐
Leakage testing for manholes included in plans, specifications, or special provisions?	YES ☒	NO ☐

14. **FLEXIBLE PIPE TESTING:**

Is deflection test included in plans, specifications, or special provisions in accordance with the Illinois Recommended Standards for Sewage Works, Current Edition? YES ☒ NO ☐ N/A ☐

15. **MISCELLANEOUS REQUIREMENTS:**

The following requirements should be included on the plan sheets where so indicated. For items where this is not specified, the requirements may be on the plan sheets, in the specifications, or in the special provisions:

15.1 Standard Specifications for Water and Sewer Main Construction in Illinois, Current Edition, govern the construction of this project. YES ☒ NO ☐ . If no, please provide specifications.

15.2 Pipe and joint ASTM/AWWA designation included on plan sheets. YES ☒ NO ☐

15.3 All flexible gravity sewer pipe installed in accordance with ASTM D2321-89; embedment materials for bedding, haunching, and initial backfill to at least 6 inches over the top of the pipe with Class IA or IB or II or III; processed material produced for highway construction used in the project classified according to particle size, shape, and gradation in accordance with ASTM D2321-89, Section 9 and Table 1. YES ☒ NO ☐ N/A ☐ .

15.4 All rigid gravity sewer pipe installed in accordance with ASTM C12 and bedding material Class A, B, or C. YES ☐ NO ☐ N/A ☒

15.5 Pickholes in all manholes likely to be flooded not larger than 1 inch in diameter and of the concealed type. YES ☒ NO ☐ N/A ☐

15.6 All manholes numbered. YES ☒ NO ☐ N/A ☐

15.7 Match lines shown on all plan sheets. YES ☒ NO ☐ N/A ☐

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
Division of Water Pollution Control, Permit Section
Post Office Box 19276
Springfield, Illinois 62794-9276

Schedule F - Sewer System Lift Station / Force Main

1. **Name of Project:** Ridgeland Avenue Pump Station, Force Main, and Gravity Sewer

2. **Design Population:**
   Area to be served 312 acres. Population to be served 2,808 P.E..

3. **Design Flows:**
   Design Average Flow 195 gpm. Design Maximum Flow 676 gpm.

4. **Lift Station will serve:**
   ☒ Only separate sewers ☐ Only combined sewers ☐ Separate and combined sewers
   ☐ Domestic waste sewers ☐ Industrial waste sewers ☒ Domestic and industrial waste sewers

5. **Lift Station is designed to serve:**
   ☐ Only the population indicated above ☒ An anticipated additional waste contribution of 11,282 P.E.

6. **Force Main:**
   Size of Force Main (inches) 16 Total Length (feet) 8,800

   Pipe material specifications PVC C-905 Joint specifications ANSI C111

   Are air relief valves provided at high points? ☒ Yes ☐ No
   Are clean-outs (blow-offs) provided at low points? ☐ Yes ☒ No

7. **Design Head (Total Dynamic Head):**
   A) **Static Head:** Discharge Elevation: 810.28
   Low Water Elevation: 752.00
   Static Head 58.28 Feet
   B) **Pipe friction loss:** 7.33 Feet at "C" = 120
   C) **Minor Losses** (Valves, etc.) 2.03 Feet at "C" = 100
   Total Dynamic Head (A + B + C) 67.64 Feet
   Maximum Suction Lift (if applicable) NA Feet

8. **Pumps**

Number of Pumps	Type of Pump	GPM per Pump	at TDH (Feet)	H.P. of Each Pump	Pass 3" Spheres
2	SUBMERSIBLE, CENTRIFUGAL	1,200	68	30	☒ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No

a. Rated Capacity of Lift Station 1,200 gpm at 68 feet of TDH.

b. Pumping Capacity with Largest Unit Out of Service 1,200 gpm at 68 feet of TDH.

c. Are all pumps with positive suction head and/or self priming? ☒ Yes ☐ No

d. Have provisions been made to detect shaft seal failure or potential shaft seal failure? ☒ Yes ☐ No

9. Valves

a. Discharge Pipe ☐ Gate ☒ Check ☒ Other PLUG VALVES
b. Suction Line (if applicable) ☐ Gate ☐ Check ☐ Other NA

10. Wet Well

a. Effective capacity (volume between pumps off and pumps on switches) = 2,300 gallons
b. Detention time at design flow = 14 minutes
c. Are there provisions for pump removal? ☒Yes ☐No

11. Buoyancy Calculations

a. Have buoyancy calculations been submitted? ☒Yes ☐No ☐N/A
b. Depth of groundwater table: 8.0 feet below the ground surface.

12. Accessability

a. Is the pump station accessible by an all weather road? ☒ Yes ☐ No

13. Ventilation

a. Wet Well:
Continuous with at least 12 complete air changes per hour? ☒Yes ☐No
Intermittent with at least 30 complete air changes per hour? ☐Yes ☐No
b. Dry Well (if applicable):
Continuous with at least 6 complete air changes per hour? ☒Yes ☐No ☐N/A
Intermittent with at least 30 complete air changes per hour? ☐Yes ☐No ☐N/A
c. Is portable ventilation equipment available for use at all times? ☒Yes ☐No

14. Emergency Operations

a. In case of power failure, is an alternate power supply available? ☒Yes ☐No
If yes, please describe the source: STANDBY GENERATOR
b. Is a portable pump, with adequate pumping capacity, available for use at all times? ☒Yes ☐No
c. Has a riser from the force main been provided to hook-up portable pumps? ☒Yes ☐No
d. Length of time between a power failure and commencement of pumping by emergency equipment INSTANTANEOUS
e. Estimated time interval before damage or sewer backup will occur 24 HOURS + .

f. Type of alarm system proposed: ☒Telemetering System ☐ Audio-Visual with self contained power

g. Are personnel available at all times to operate emergency equipment? ☒Yes ☐No

15. Flow Measurement

a. Type of flow measurement provided: ☒Flow meter ☐Elapsed time meters ☐ITR

16. Compliance with Illinois Recommended Standards for Sewage Works

a. Can the pump station remain operational during the 25 year flood? ☒Yes ☐No
b. Is the pump station protected from physical damage during the 100 year flood? ☒Yes ☐No
c. When applicable, will electrical systems and components comply with NEC requirements for Class I, Group D, Division I locations? ☒Yes ☐No
d. Have provisions been made to automatically alternate the pumps? ☒Yes ☐No
e. Is the motor control center located outside and protected by a conduit seal? ☒Yes ☐No
f. Can the motor be electronically disconnected without disturbing the seal? ☒Yes ☐No

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 1112, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that section. Failure to do so may prevent this form from being processed and could result in your application being denied.

For IEPA Use:

LOG #

DATE RECEIVED:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
PERMIT SECTION
Springfield, Illinois 62794-9276

Schedule P - Erosion Control

1. Name of Project Ridgeland Avenue Pump Station, Force Main, and Gravity Sewer

2. Total area disturbed by excavation: 8.25 acres

3. Summary of erosion control practices:

			Area Controlled (Sq. Ft.)	Permanent (P) or Temporary (T)
Vegetative Control	360,000	(Sq. Feet)	360,000	P
Interceptor Ditches	200	(Feet)	60,000	T
Berms		(Feet)		
Sediment Basins		(Cu. Yd.)		
Debris Basins		(Cu. Ft.)		
Desilting Basins		(Cu. Ft.)		
Silt Traps		(Cu. Ft.)		
Mulching and Matting		(Cu. Ft./Sq. Ft.)		
Other	4000 LF	(Indicate)	300,000	T - Silt Fence

4. Attach topographical or plan maps of construction area and indicate erosion control practices.

5. Drainage area (above and including construction site) NA

6. Slope categories of construction site:

	Area (acres)	Disposition of collected sediment
6.1 0 - 2% slope	7.0	respread
6.2 2 - 4% slope	1.25	respread
6.3 4 - 6% slope		
6.4 6% slope or greater		

Please check one below.

☒ Erosion control practices identified above will be constructed in accordance with Illinois Urban Manual, 1995.

OR

☐ Plans or specifications for the above referenced erosion control practices are attached.